



9693-004-999

(SHEET 1 OF 1)

Test cells Prepare a cDNA library directionally cloned in lambda ZAP II vector Convert into plasmid library by in vivo excision Convert into single stranded cDNA library Anneal to mRNA from reference cells "Fill in" the plasmids with Klenow fragment of E coli DNA polymerase I and Pfu DNA polymerase Digest the heteroduplex loops with RNase I Open the plasmids with \$1 nuclease Ligate to the stuffer (Figure 2) Transfect into E.coli cells Plate the library and obtain replicas Screen the library with radiolabeled stuffer Select the positive clones and prepare plasmid DNA Sequence the plasmid DNA with the primers a and b (Figure 2) Analyze the sequence by comparison with homologous genes from database

Figure 1

5'- CTATAGTGTCACCTAAATA-3' (SEQ ID NO. 1)

MluI NruI

| | | | | (SEQ ID NO. 2)

GGGTTTTCTATAGTGTCACCTAAATAACGCGTCGACGTCGCGATCCCTTTAGTGAGGGTTAATGGGTTTT

CCCAAAAGATATCACTGTGGATTTATTGCGCTGCTGCAGCGCTAGGAAATCACTCCCAATTACCCAAAA

(SEQ ID NO. 3)

3'-GATATCACTGTGGATTTAT-5' 3'-AGGGAAATCACTCCCAATTA-5'

SP6 polymerase promoter primer (SEQ ID NO. 12) b (SEQ ID NO. 4)

Figure 2

ATGTGTGGGGTTTTCTA-STUFFER-AATGGGTTTTGATTGAAGCT (SEQ ID NO. 5)

Ile Cys Ile Glu Ala (SEQ ID NO. 6)
Sequence obtained by SDBC: ATG TGT G-G ATT GAA GCT (SEQ ID NO. 7)

Sequence obtained by RT PCR Ile Cys Val Ile Glu Ala (SEQ ID NO. 8) from MCF7 cells: ATG TGT GTG ATT GAA GCT (SEQ ID No. 9)

Sequence obtained by RT PCR Ile Cys Glu Ile Glu Ala (SEQ ID NO. 10) from normal breast cells: ATG TGT GAG ATT GAA GCT (SEQ ID NO. 11)

Figure 3